The Bachelor of Science in Mathematics (with certification) prepares students for teaching in secondary schools.

### BS in MATHEMATICS (WITH CERTIFICATION):
**TECHNICAL WRITING PLAN**

**ACADEMIC MAP**

**CATALOG YEAR: 2016-17**

<table>
<thead>
<tr>
<th>FALL</th>
<th>Hrs.</th>
<th>SPRING</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1310/1313 or TECM 1700*</td>
<td>3</td>
<td>TECM 2700*</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 1040</td>
<td>3</td>
<td>PSCI 1050</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1710</td>
<td>4</td>
<td>MATH 1720</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2000</td>
<td>3</td>
<td>MATH 2100</td>
<td>3</td>
</tr>
<tr>
<td>TNTX 1100</td>
<td>1</td>
<td>TNTX 1200</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>14</strong></td>
<td><strong>Lab Science</strong>*</td>
<td><strong>4</strong></td>
</tr>
<tr>
<td><strong>Milestones</strong></td>
<td></td>
<td><strong>Milestones</strong></td>
<td></td>
</tr>
<tr>
<td>Maintain at least a 2.75 UNT and overall GPA.</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Maintain at least a 2.5 GPA in math courses.</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FALL</th>
<th>Hrs.</th>
<th>SPRING</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSE 3500</td>
<td>3</td>
<td>CSCE 1010 or 1020 or 1030</td>
<td>3 or 4</td>
</tr>
<tr>
<td>MATH 2700</td>
<td>3</td>
<td>MATH 3000</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2730</td>
<td>3</td>
<td>MATH 3680</td>
<td>3</td>
</tr>
<tr>
<td>Lab Science***</td>
<td>4</td>
<td>PHIL 2600</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>Lab Science***</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>16</strong></td>
<td><strong>Total Hours</strong></td>
<td><strong>16 or 17</strong></td>
</tr>
<tr>
<td><strong>Milestones</strong></td>
<td></td>
<td><strong>Milestones</strong></td>
<td></td>
</tr>
<tr>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Maintain at least a 2.5 GPA in math courses.</td>
<td></td>
<td>Maintain at least a 2.5 GPA in math courses.</td>
<td></td>
</tr>
<tr>
<td>Maintain at least a 2.75 GPA in all TNT courses.</td>
<td></td>
<td>Maintain at least a 2.75 GPA in all TNT courses.</td>
<td></td>
</tr>
<tr>
<td>Completion of MATH 2700, 2730, and 3000.</td>
<td></td>
<td>Completion of MATH 1710, 1720, 2000, and 2100.</td>
<td></td>
</tr>
<tr>
<td>Begin work on TNT portfolio.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FALL</td>
<td>Hrs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
<td>------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 2610</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 3510 or 3610</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 4050</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TECM 4180, 4190, 4250 or 4700</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDSE 4000</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Milestones**
- Maintain at least a 2.75 UNT and overall GPA.
- Maintain at least a 2.5 GPA in math courses.
- Maintain at least a 2.75 GPA in all TNT courses.
- Maintain at least a 2.0 GPA in math courses numbered 3350 and above.
- Admission into teacher education.
- Continue work on TNT portfolio.

<table>
<thead>
<tr>
<th>SPRING</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2620</td>
<td>3</td>
</tr>
<tr>
<td>MATH analysis or algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3850</td>
<td>3</td>
</tr>
<tr>
<td>Creative Arts*</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Milestones**
- Maintain at least a 2.75 UNT and overall GPA.
- Maintain at least a 2.5 GPA in math courses.
- Maintain at least a 2.75 GPA in all TNT courses.
- Maintain at least a 2.0 GPA in math courses numbered 3350 and above.
- Completion of EDSE 3500, EDSE 4000, and PHIL 2600.
- Continue work on TNT portfolio.

<table>
<thead>
<tr>
<th>FALL</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 4060</td>
<td>3</td>
</tr>
<tr>
<td>Math Elective (3350 or higher)</td>
<td>3</td>
</tr>
<tr>
<td>Math Elective (3350 or higher)</td>
<td>3</td>
</tr>
<tr>
<td>TNTX 3100</td>
<td>3</td>
</tr>
<tr>
<td>EDSE 4500, Project-Based Instruction</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Milestones**
- Maintain at least a 2.75 UNT and overall GPA.
- Maintain at least a 2.5 GPA in math courses.
- Maintain at least a 2.75 GPA in all TNT courses.
- Maintain at least a 2.0 GPA in math courses numbered 3350 and above.
- Submit and pass preliminary portfolio.
- Completes state certification exams.

<table>
<thead>
<tr>
<th>SPRING</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSE 4608/4618</td>
<td>6</td>
</tr>
<tr>
<td>EDSE 4628</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>3 or 4</td>
</tr>
<tr>
<td><strong>Total hours</strong></td>
<td><strong>10 or 11</strong></td>
</tr>
</tbody>
</table>

**Milestones**
- Maintain at least a 2.75 UNT and overall GPA.
- Maintain at least a 2.5 GPA in math courses.
- Maintain at least a 2.75 GPA in all TNT courses.
- Maintain at least a 2.0 GPA in math courses numbered 3350 and above.
- Submit and pass final portfolio.
- Apply for graduation with the College of Arts and Sciences, GAB 220.

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*See the University Core Curriculum section of this catalog for approved list of course options.

**See Arts and Sciences degree requirements section of this catalog for approved list of course options.

***See the mathematics major requirements for an approved list of courses. For MATH/PHYS certification, PHYS 1710/1730, PHYS 2220/2240, and PHYS 3010/3030 are required.